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Base URL

The base URL for all API requests is: http://localhost:8080/api

Authentication

Login Endpoint

POST /auth/login

Validates user credentials and returns basic user details and a jwt token.

Response

Returns a JSON object with the following properties:

- message: token
- data: A JSON object of user details
 - o userId: The ld of the user.
 - o fullname: The full name of the user.
 - o email: The email of the user.
 - o roles: An array containing roles assigned to the user.
 - jwtToken: The jwt token generated for this login.

Example

```
Request:
```

```
POST /auth/login
Body:
{
"email": "ak@gmail.com",
"password": "asdf"
}
```

Response: 200 OK

```
{
    "message": "token",
    "data": {
        "userId": 1,
        "fullname": "Aashish Katwal",
        "email": "ak@gmail.com",
        "roles": [
            "EMPLOYEE",
            "ADMIN"
        ],
        "jwtToken":
"eyJ0eXAi0iJKV1QiLCJhbGci0iJIUzI1NiJ9.eyJzdWIi0iJha0BnbWFpbC5jb20iLCJp
YXQiOjE3MzIyNTc2NjQsImV4cCI6MTczMjI2NDg2NH0.-zIBDKiM5aScimSf9J1VE-JLgC
TwT_3daZJ4Cn1L_RQ"
    }
}
```

This API uses the following error codes:

- 401 Unauthorized: The credentials are invalid.
- 500 Internal Server Error: An unexpected error occurred on the server.

Signup Endpoint

POST /auth/signup

Registers user details and returns basic user details.

Response

Returns a JSON object with the following properties:

- message: User created successfully.
- data: A JSON object of user details
 - o userId: The ld of the user.
 - fullname: The full name of the user.
 - o email: The email of the user.
 - roles: An array containing roles assigned to the user.
 - jwtToken: null

Example

Request:

```
POST /auth/signup
Body:
{
     "fullname": "Aashish Katwal",
     "email": "ak@gmail.com",
     "password": "asdf",
     "roles": ["EMPLOYEE"]
}
Response: 201 Created
{
    "message": "token",
    "data": {
        "userId": 1,
        "fullname": "Aashish Katwal",
        "email": "ak@gmail.com",
        "roles": [
            "EMPLOYEE",
        ],
        "jwtToken": null
    }
}
```

Errors

- 400 Bad Request: Duplicate Record. Email already exists.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Product

New Product Endpoint

POST /secure/product/new

Saves new product to the database.

Response

Returns a JSON object with the following properties:

- message: Product Added Successfully.
- data: A JSON object of product details
 - o productId: The ld of the product.
 - o productName: The name of the product.
 - o description: The description of the product.
 - o price: The price of the product.
 - o quantity: The quantity of available product.
 - o supplierName: The name of the supplier.

```
Request:
```

```
POST /secure/product/new
Body:
{
    "productName": "Asus CPU Casing",
    "description": "Metal Panel with RGB lights",
    "price": 60000,
    "quantity": 2,
    "supplier": {"supplierId": 2}
}
Response: 201 Created
{
    "message": "Product Added Successfully",
    "data": {
```

This API uses the following error codes:

- 400 Bad Request: Resource not found for missing invalid values such as negative value of quantity or missing field.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Get Products Endpoint

GET /secure/product/all

Fetches a list of products from the database.

Response

Returns a JSON object with the following properties:

- message: Products fetched successfully.
- data: A JSON object of product details
 - o productId: The ld of the product.
 - o productName: The name of the product.
 - o description: The description of the product.
 - o price: The price of the product.
 - o quantity: The quantity of available product.
 - o supplierName: The name of the supplier.

Example

Request:

```
Body: N/A
```

```
Response: 200 OK
{
    "message": "Fetched products successfully",
    "data": [
        {
            "productId": 1,
            "productName": "Acer Nitro 2024",
            "description": "High-performance gaming laptop with 16GB
RAM",
            "price": 1200.50,
            "quantity": 110,
            "supplierName": "Asus INFOTek"
        },
        {
            "productId": 2,
            "productName": "Asus Zenbook 2020",
            "description": "High-performance laptop for Designers",
            "price": 120000.00,
            "quantity": 30,
            "supplierName": "Acer Inc."
        }
    1
}
```

- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Product By Id Endpoint

GET /secure/product/{productId}

Fetches product for given ID from the database.

Response

Returns a JSON object with the following properties:

- message: Products fetched successfully.
- data: A JSON object of product details
 - o productId: The ld of the product.
 - o productName: The name of the product.
 - o description: The description of the product.
 - o price: The price of the product.
 - o quantity: The quantity of available product.
 - o supplierName: The name of the supplier.

Example

```
Request:
GET /secure/product/2
Body: N/A
Response: 200 OK
{
    "message": "Fetched products successfully",
    "data": {
        "productId": 2,
        "productName": "Asus Zenbook 2020",
        "description": "High-performance laptop for Designers",
        "price": 120000.00,
        "quantity": 30,
        "supplierName": "Acer Inc."
    }
}
```

Errors

This API uses the following error codes:

- 400 Bad Request: Resource not found for invalid product Id.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Delete Product Endpoint

DELETE /secure/product/delete/{productId}

Deletes a product by id.

Response

Returns a JSON object with the following properties:

- message: Product Added Successfully.
- data: A JSON object of project details
 - o productId: The ld of the product.
 - productName: The name of the product.
 - o description: The description of the product.
 - o price: The price of the product.
 - quantity: The quantity of available product.
 - o supplierName: The name of the supplier.

Example

Request:

DELETE /secure/product/delete/2

Body: N/A

Response: 204 No Content

Errors

- 400 Bad Request: Resource not found for invalid product Id.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Update Product Endpoint

POST /secure/product/update/{productId}

Updates a product by id.

Response

Returns a JSON object with the following properties:

- message: Product Added Successfully.
- data: A JSON object of project details
 - o productId: The ld of the product.
 - o productName: The name of the product.
 - o description: The description of the product.
 - o price: The price of the product.
 - o quantity: The quantity of available product.
 - o supplierName: The name of the supplier.

```
Request:

POST /secure/product/update/1

Body:
{
    "productName": "Asus Zenbook 2021",
    "description": "High-performance laptop for Designers",
    "price": 120000.00,
    "quantity": 13,
    "supplier": {
        "supplierId": 2
    }
}

Response: 200 OK
{
    "message": "Product fetched successfully",
```

```
"data": {
        "productId": 2,
        "productName": "Asus Zenbook 2021",
        "description": "High-performance laptop for Designers",
        "price": 120000.00,
        "quantity": 13,
        "supplierName": "Acer Inc."
}
```

This API uses the following error codes:

- 400 Bad Request: Resource not found for invalid product Id.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Restock Product Endpoint

POST /secure/product/restock

Imitates product restock. This increases product quantity in the database.

Response

Returns a JSON object with the following properties:

- message: Product Added Successfully.
- data: A JSON object of project details
 - o productId: The Id of the product.
 - o productName: The name of the product.
 - o description: The description of the product.
 - o price: The price of the product.
 - o quantity: The new quantity of the product.
 - supplierName: The name of the supplier.

Request:

```
POST /secure/product/restock/
Body:
{
    "productId": 2,
    "quantity": 40
}
Response: 200 OK
{
    "message": "Product fetched successfully",
    "data": {
        "productId": 2,
        "productName": "Asus Zenbook 2021",
        "description": "High-performance laptop for Designers",
        "price": 120000.00,
        "quantity": 140,
        "supplierName": "Acer Inc."
    }
}
```

Errors

- 400 Bad Request: Negative quantity or invalid product Id.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

CSV Product Import Endpoint

POST /secure/product/import

Imports product from the CSV

Response

Returns a JSON object with the following properties:

- message: Success
- data: Success or error message.

Request:

```
POST /secure/product/import/
Body form-data:
```

```
key: productCsv
Value: productData.csv

Response: 200 OK
{
    "message": "Success",
    "data": "Successfully imported 3 products."
}
```

Errors

- 400 Bad Request: Negative quantity or missing supplier.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

CSV Product Export Endpoint

GET /secure/product/export

Exports the list of products available in the database.

Response

Downloads the products as CSV and saves to the user's system.

Example

Request:

```
GET /secure/product/export
```

Body: N/A

Response: 200 OK

```
"As of 2024-11-22 01:27:32 PM: "
"ID", "Product Name", "Description", "Price", "Quantity", "Supplier"
"1", "Acer Nitro 2024", "High-performance gaming laptop with 16GB
RAM", "1200.50", "115", "Asus INFOTek"
"2", "Asus Zenbook 2021", "High-performance laptop for
Designers", "120000.00", "13", "Acer Inc."
"3", "Asus Vivobook 2024", "Medium Segment laptop for general
use", "90000.00", "40", "Asus INFOTek"
```

Errors

- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Supplier

New Supplier Endpoint

POST /secure/supplier/new

Saves new suppliers to the database.

Response

Returns a JSON object with the following properties:

- message: Supplier Added Successfully.
- data: A JSON object of supplier details
 - o supplierId: The Id of the supplier.
 - o supplierName: The name of the supplier.
 - o email: The email of the supplier.
 - o phoneNumber: The contact number of the supplier.
 - o status: The status of the supplier.

```
Request:
```

```
POST /secure/supplier/new
Body:
{
    "supplierName": "HP Inc",
    "email": "support@hp.com",
    "phoneNumber": "9800123456",
    "status": "ACTIVE"
}
Response: 201 Created
{
    "message": "Supplier Added Successfully",
    "data": {
        "supplierId": 11,
        "supplierName": "HP Inc",
        "he incession in the incession in th
```

This API uses the following error codes:

- 400 Bad Request: Missing field values.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Get All Supplier Endpoint

POST /secure/supplier/

Returns the list of all suppliers in the database.

Response

Returns a JSON object with the following properties:

- message: Product Added Successfully.
- data: An array of JSON objects of supplier details
 - o supplierId: The Id of the supplier.
 - o supplierName: The name of the supplier.
 - o email: The email of the supplier.
 - o phoneNumber: The contact number of the supplier.
 - o status: The status of the supplier.

Example

```
Request:
```

```
GET /secure/supplier/
```

Body: N/A

```
Response: 200 OK
{
    "message": "Suppliers fetched successfully",
    "data": [
        {
            "supplierId": 12,
            "supplierName": "",
            "email": "support@hp.com",
            "phoneNumber": "9800123456",
            "status": "ACTIVE"
        },
        {
            "supplierId": 13,
            "supplierName": "lenovo",
            "email": "support@lenovo.com",
            "phoneNumber": "9800123456",
            "status": "ACTIVE"
        }
    ]
}
```

- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Products By Supplier Endpoint

GET /secure/supplier/products?supplierId={id}

Returns the list of products of the supplier.

Parameters

• supplierId: The id of an existing supplier.

Response

Returns a JSON object with the following properties:

- message: Supplier Added Successfully.
- data: A JSON object of supplier details
 - o productName: The name of the product.
 - o price: The price of the product.
 - o supplierName: The name of the supplier.

```
Request:
```

```
GET /secure/supplier/products?supplierId=2
Body: N/A
Response: 200 OK
{
    "message": "Products fetched successfully",
    "data": [
        {
            "productName": "Asus Zenbook 2021",
            "price": 120000.00,
            "supplierName": "Acer Inc."
        },
        {
            "productName": "Paracetamol",
            "price": 10.50,
            "supplierName": "Acer Inc."
        }
```

```
.
```

This API uses the following error codes:

- 204 No Content: Supplier doesn't exist.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Change Supplier Status Endpoint

GET /secure/supplier/changeStatus/{supplierId}?newStatus={value}

Changes the status of the supplier in the database.

Parameters

newStatus: The new status to be assigned

Response

Returns a JSON object with the following properties:

- message: Supplier Added Successfully.
- data: A JSON object of supplier details
 - o supplierId: The Id of the supplier.
 - supplierName: The name of the supplier.
 - o email: The email of the supplier.
 - o phoneNumber: The contact number of the supplier.
 - status: The status of the supplier.

Example

Request:

GET /secure/supplier/changeStatus/1?newStatus=ACTIVE

```
Body: N/A
```

```
Response: 200 OK

{
    "message": "Supplier status changed successfully!",
    "data": {
        "supplierId": 1,
        "supplierName": "Asus INFOTek",
        "email": "contact@asus.com",
        "phoneNumber": "9800112233",
        "status": "ACTIVE"
    }
}
```

This API uses the following error codes:

- 400 Bad Request: Supplier not found.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Update Supplier Endpoint

PUT /secure/supplier/update/{supplierId}

Updates new supplier details in the database.

Response

Returns a JSON object with the following properties:

- message: Supplier Added Successfully.
- data: A JSON object of supplier details
 - o supplierId: The Id of the supplier.
 - o supplierName: The name of the supplier.
 - o email: The email of the supplier.
 - o phoneNumber: The contact number of the supplier.
 - o status: The status of the supplier.

Example

```
Request:
PUT /secure/supplier/update/1
Body:
{
    "supplierName": "ASUSTek Computer Inc.",
    "email": "contacts@asus.org",
    "phoneNumber": "9800112233",
    "status": "ACTIVE"
}
Response: 200 OK
{
    "message": "Updated successfully",
    "data": {
        "supplierId": 1,
        "supplierName": "ASUSTek Computer Inc.",
        "email": "contacts@asus.org",
        "phoneNumber": "9800112233",
        "status": "ACTIVE"
    }
}
```

Errors

- 400 Bad Request: Missing field values.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

CSV Supplier Import Endpoint

POST /secure/supplier/import

Imports suppliers from the CSV

Response

Returns a JSON object with the following properties:

- message: Success
- data: Success or error message.

Request:

```
POST /secure/supplier/import/

Body form-data:

key: supplierCsv

Value: supplierData.csv

Response: 200 OK

{
    "message": "Success",
    "data": "Successfully imported 5 suppliers."
}
```

Errors

- 400 Bad Request: Negative quantity or missing supplier.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

CSV Supplier Export Endpoint

GET /secure/supplier/export

Exports the list of suppliers available in the database.

Response

Downloads the list of suppliers as CSV and saves to the user's system.

Example

Request:

```
GET /secure/supplier/export
```

Body: N/A

Response: 200 OK

```
"As of 2024-11-22 01:58:30 PM: "

"ID", "Supplier Name", "Email", "Phone Number", "Status"

"1", "ASUSTek Computer Inc.", "contacts@asus.com", "9800112233", "ACTIVE"

"2", "Acer Inc.", "contact@acer.com", "9800123349", "ACTIVE"
```

Errors

- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Orders

New Order Endpoint

POST /secure/product/new

Creates new order.

Response

Returns a JSON object with the following properties:

- message: Product Added Successfully.
- data: A JSON object of product details
 - o orderId: The ld of the order.
 - o totalAmount: The total value of the order.
 - status: The status of the order.
 - o products: The array of JSON objects of products
 - quantity: The quantity of products in orderItem.
 - productId: The id of the product ordered.
 - productName: The name of the product ordered.
 - rate: The rate of each product ordered.
 - totalPrice: The total value of each product ordered. Value=quantity*rate.

```
Request:
```

```
Response: 201 Created
{
    "message": "Order Placed Successfully",
    "data": {
        "orderId": 4,
        "totalAmount": 105.00,
        "status": "IN_PROGRESS",
        "products": [
                 "quantity": 10,
                 "productId": 9,
                 "productName": "Paracetamol",
                 "rate": 10.50,
                 "totalPrice": 105.00
            }
        ]
    }
}
```

This API uses the following error codes:

- 400 Bad Request: Resource not found for missing products or invalid values such as negative value of quantity or missing field.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Get All Orders Endpoint

GET /secure/orders/all

Fetches a list of orders from the database.

Response

Returns a JSON object with the following properties:

• message: Products fetched successfully.

- data: A JSON object of product details
 - o orderId: The Id of the order.
 - o totalAmount: The total value of the order.
 - status: The status of the order.
 - o products: The array of JSON objects of products
 - quantity: The quantity of products in orderItem.
 - productId: The id of the product ordered.
 - productName: The name of the product ordered.
 - rate: The rate of each product ordered.
 - totalPrice: The total value of each product ordered. Value=quantity*rate.

```
Request:
GET /secure/orders/all
Body: N/A
Response: 200 OK
{
    "message": "Orders fetched successfully",
    "data": [
        {
            "orderId": 1,
            "totalAmount": 3312005.00,
            "status": "IN_PROGRESS",
            "products": [
                 {
                     "quantity": 10,
                     "productId": 1,
                     "productName": "Acer Nitro 2024",
                     "rate": 1200.50,
                     "totalPrice": 12005.00
                 },
                     "quantity": 20,
                     "productId": 2,
                     "productName": "Asus Zenbook 2021",
```

This API uses the following error codes:

- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

CSV Order Import Endpoint

POST /secure/orders/import

Imports ordres from the CSV

Response

Returns a JSON object with the following properties:

- message: Success
- data: Success or error message.

Request:

POST /secure/orders/import

Body form-data:

```
key: orderCsv
Value: orderData.csv

Response: 200 OK
{
    "message": "Success",
    "data": "Successfully imported 3 orders."
}
```

Errors

This API uses the following error codes:

- 400 Bad Request: Negative quantity.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

CSV Orders Export Endpoint

GET /secure/orders/export

Exports the list of orders available in the database.

Response

Downloads the list of orders as CSV and saves to the user's system.

Example

Request:

GET /secure/orders/export

Body: N/A

Response: 200 OK

This API uses the following error codes:

- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.

Delete Order Endpoint

DELETE /secure/orders/delete/{orderId}

Deletes an order by id.

Response

Returns Http Status 204.

Example

Request:

DELETE /secure/orders/delete/2

Body: N/A

Response: 204 No Content

Errors

- 400 Bad Request: Order not found for the given ID.
- 401 Unauthorized: Missing authentication token.
- 500 Internal Server Error: An unexpected error occurred on the server.